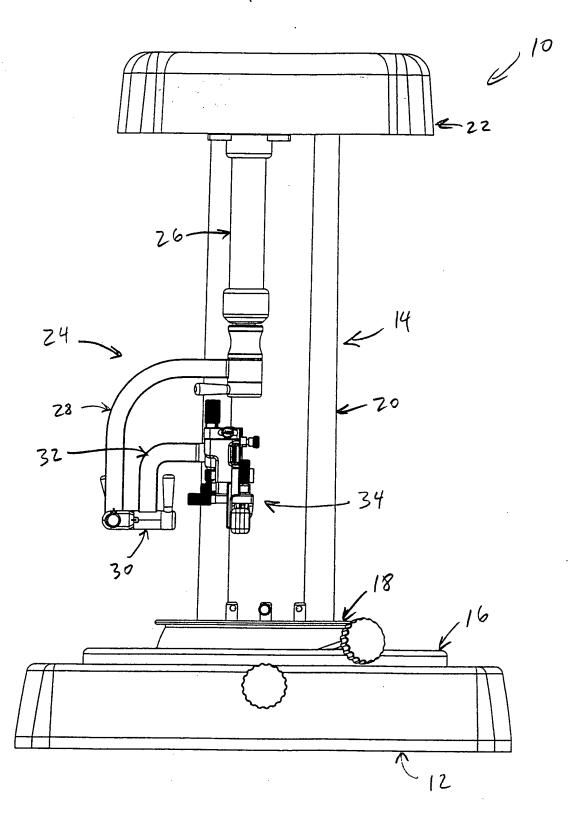
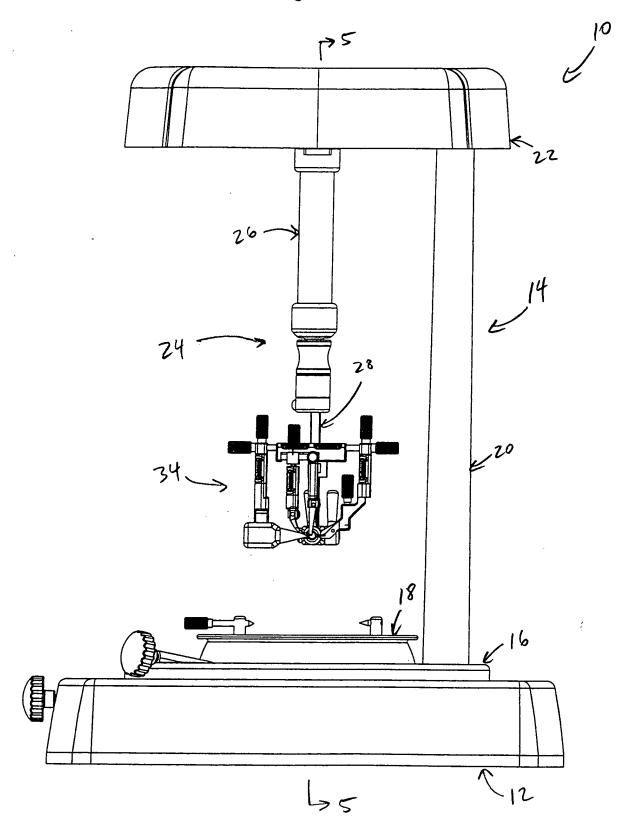
Serial No.: Filed herewith Inventor: REISING, Brian C.
Title: ORTHODONTIC BRACKET POSITIONING DEVICE AND METHOD
Atty.: John W. Greenwald
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F16.1

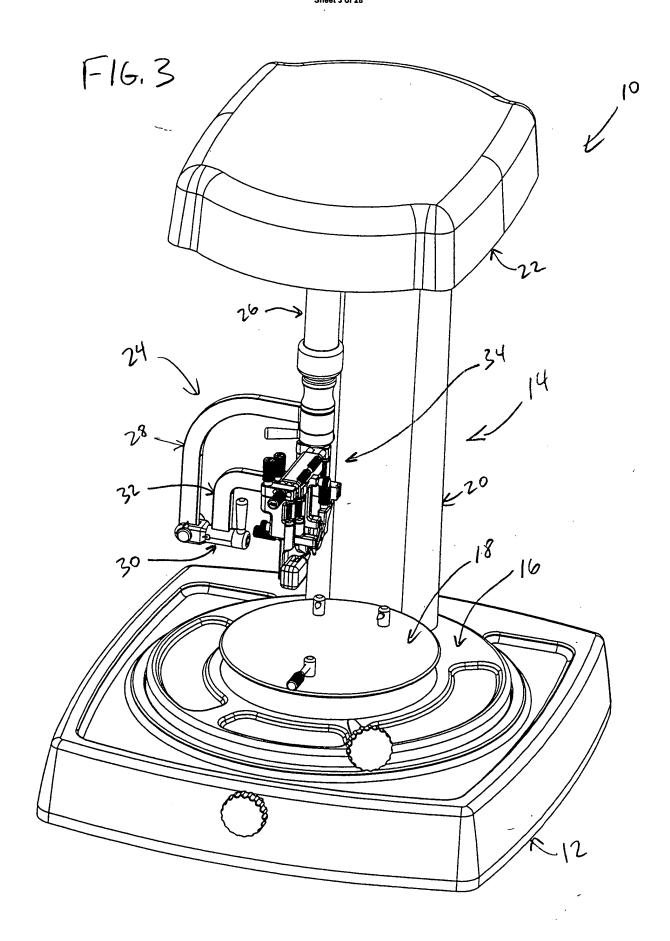


Serial No.: Auto necessary
Inventor: REISING, Brian C.
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AND METHOD
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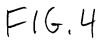
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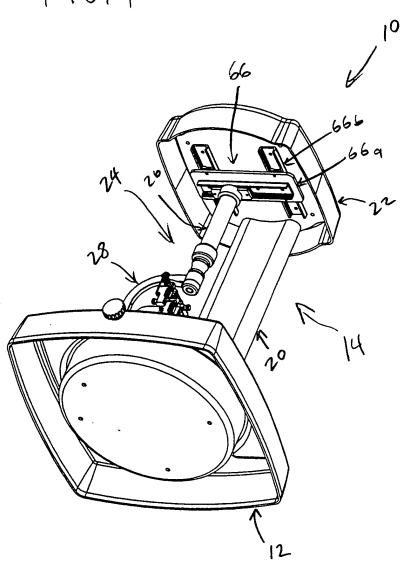


Serial No.: Filed herewith Inventor: REISING, Brian C. Title: ORTHODONTIC BRACKET POSITIONING DEVICE AND METHOD Atty.: John W. Greenwald Atty. Docket No.: 8R08.1-030 Telephone No.: 770.984.2300 Sheet 3 of 28

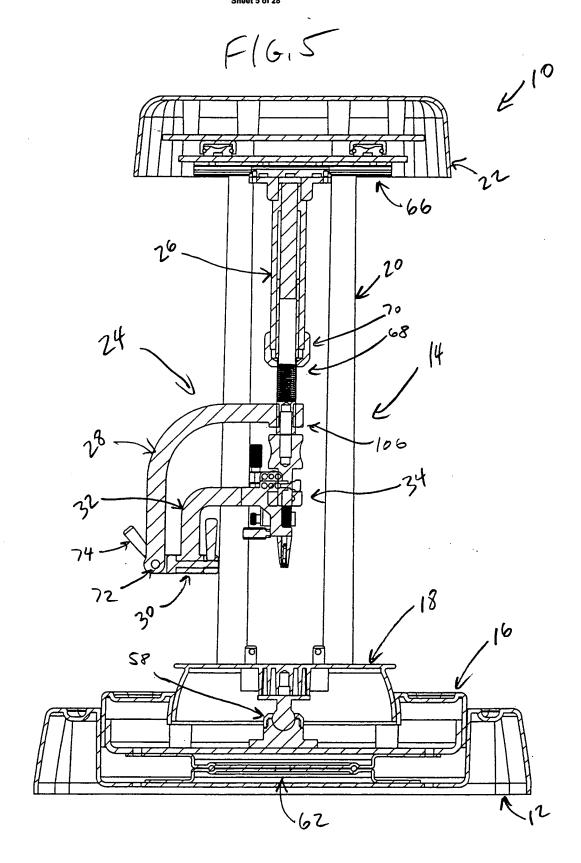


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Serial No.: Filed herewith Inventor: REISING, Brian C.

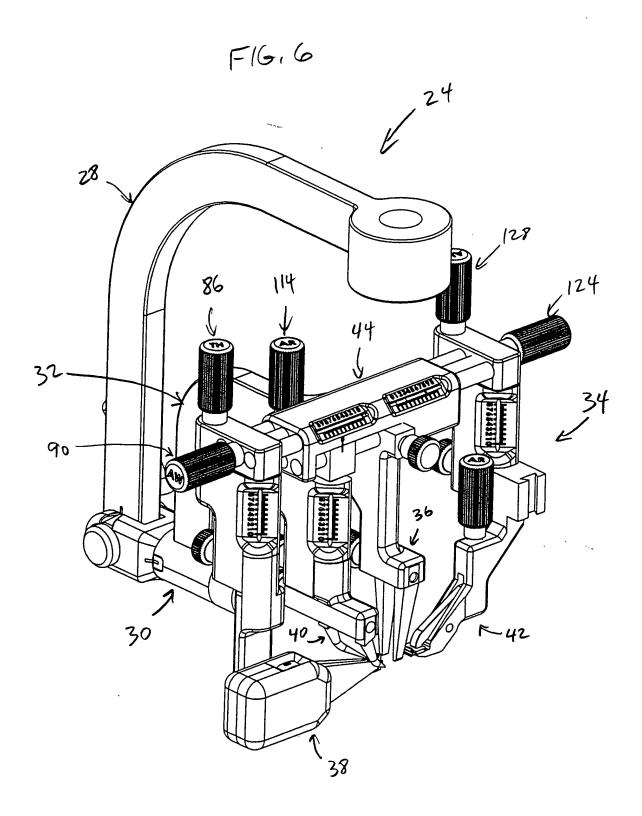
Title: ORTHODONTIC BRACKET POSITIONING DEVICE AND METHOD

Atty.: John W. Greenwald

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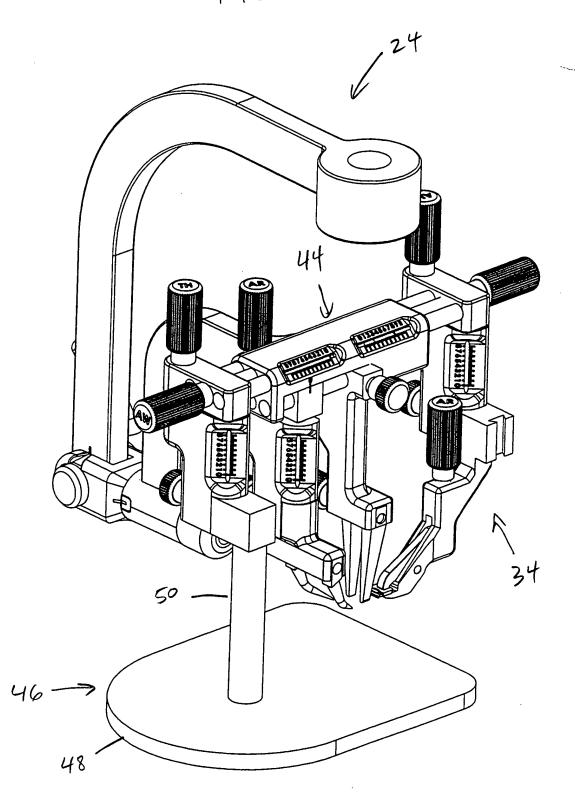
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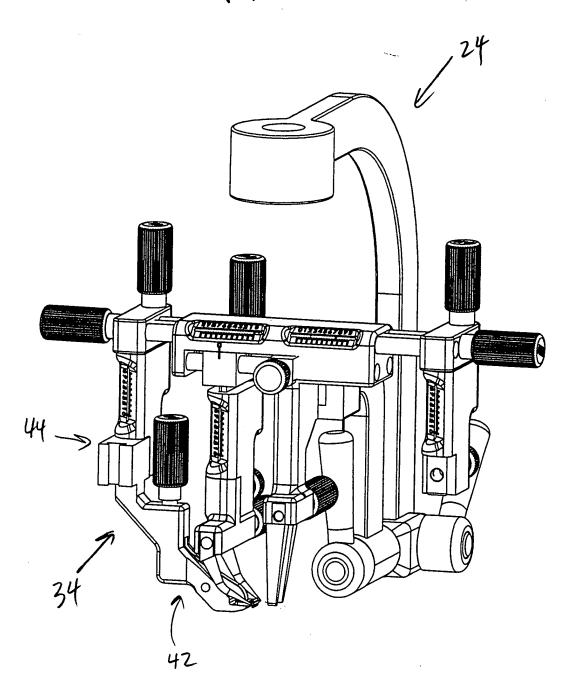
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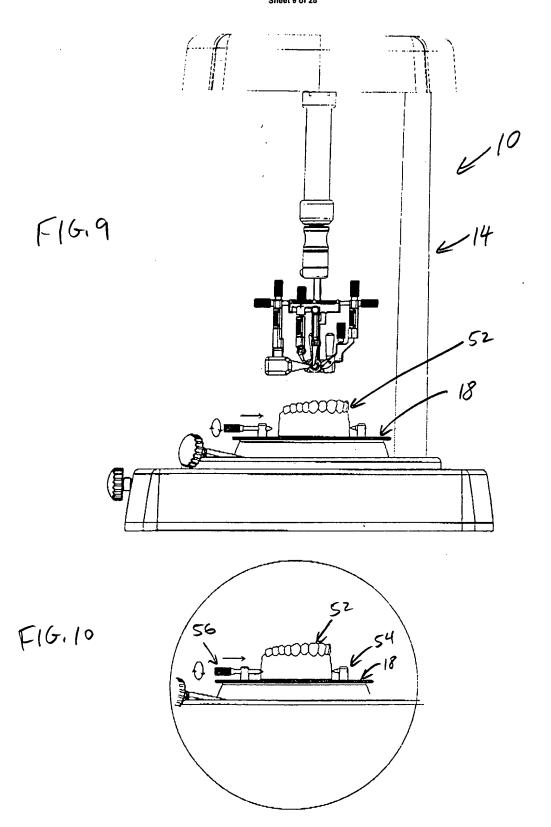
Serial No.: Filed herewith
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AND METHOD
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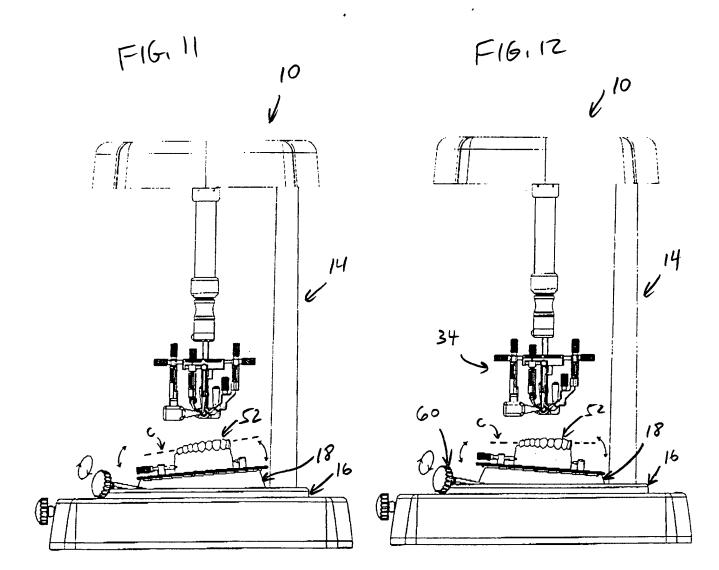
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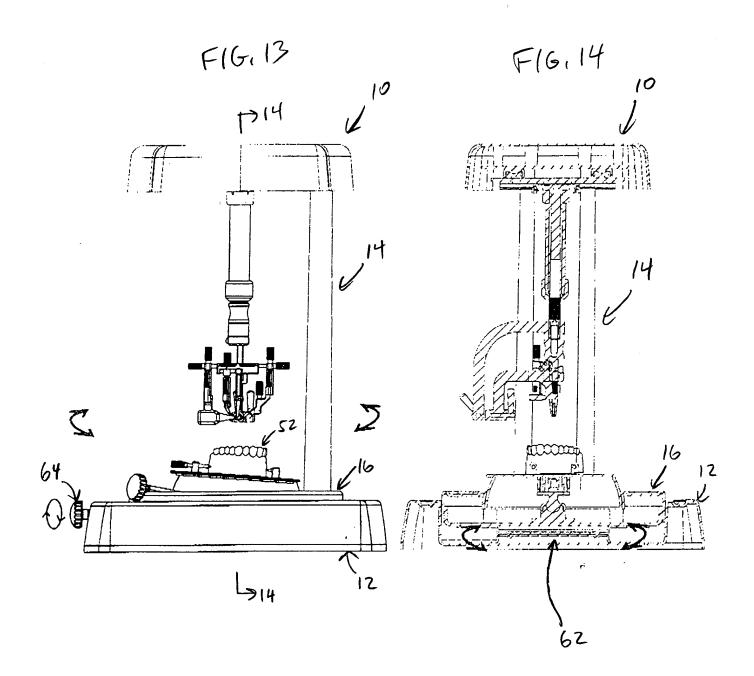
Serial No.: Filed herewith
Inventor: REISING, Brian C.
Title: ORTHODONTIC BRACKET POSITIONING DEVICE
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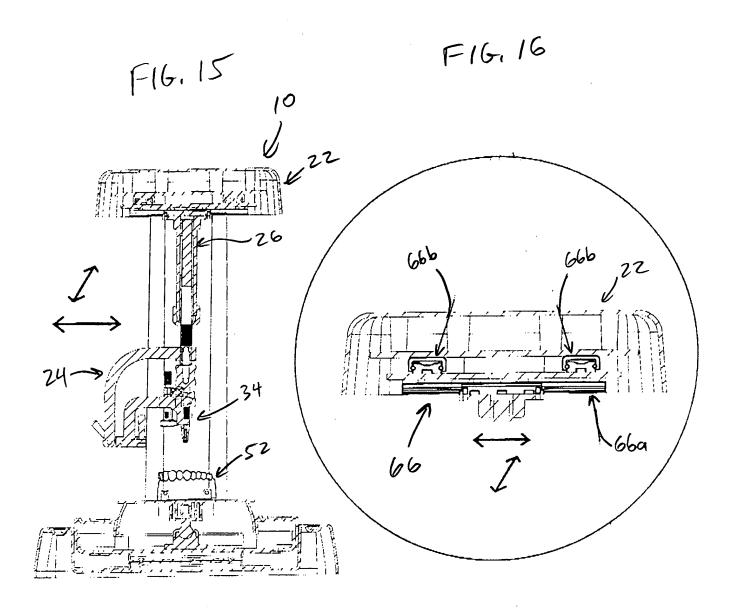
Title: ORTHODONTIC BRACKET POSITIONING DEVICE AND METHOD

Atty.: John W. Greenwald

Atty. Docket No.: 8R08.1-030

Telephone No.: 770.984.2300

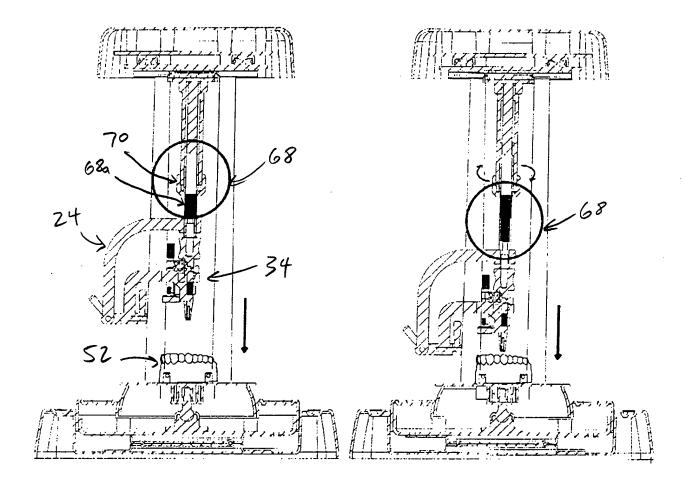
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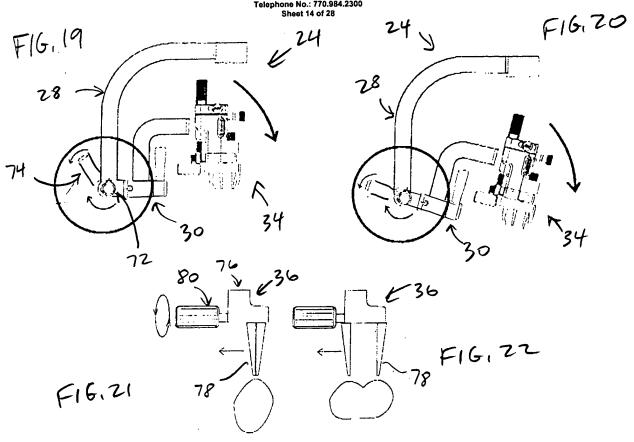
Serial No.: Filed herewith
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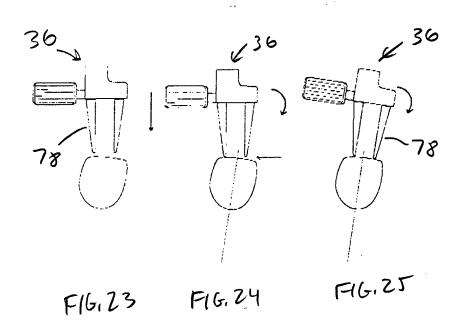
F16, 17

F16, 18



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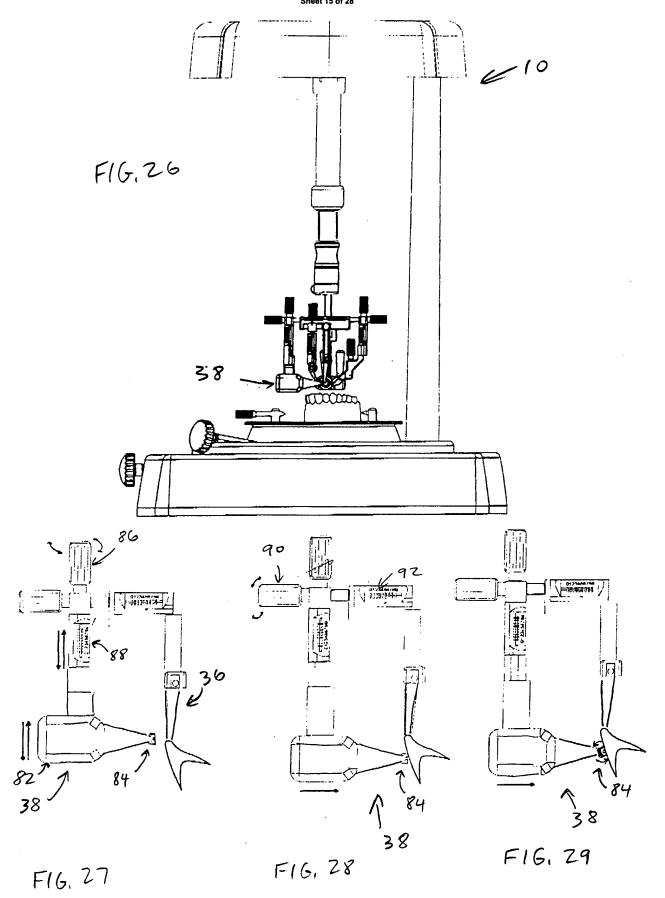




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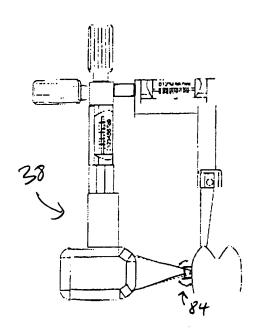
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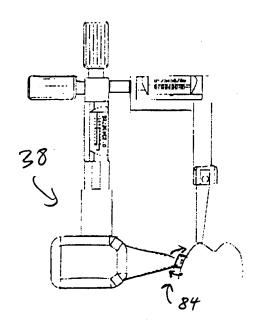


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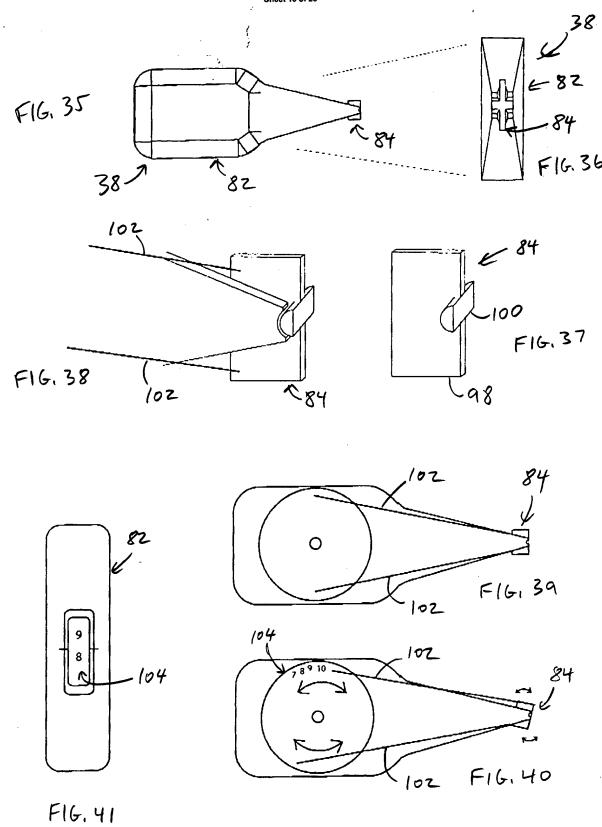


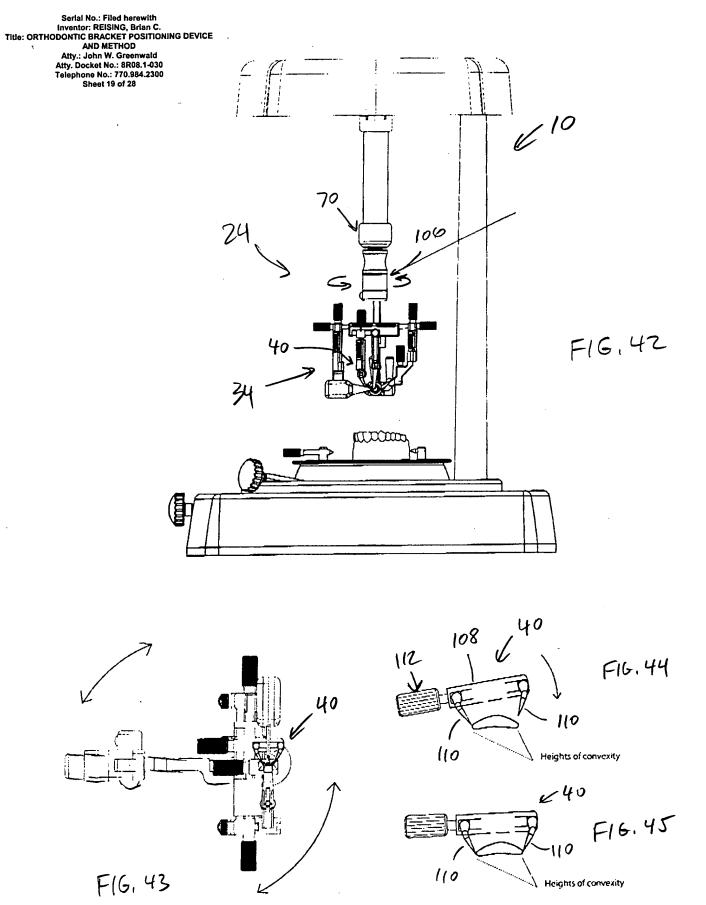


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F16.34

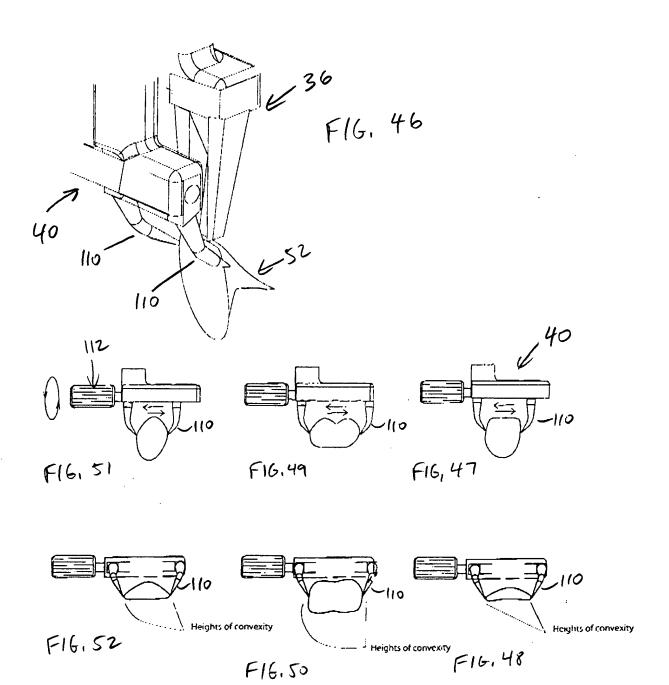
## Serial No.: Filed herewith Inventor: REISING, Brian C. Title: ORTHODONTIC BRACKET POSITIONING DEVICE AND METHOD Atty.: John W. Greenwald Atty. Docket No.: 8R08.1-030 Telephone No.: 770.984.2300 Sheet 18 of 28





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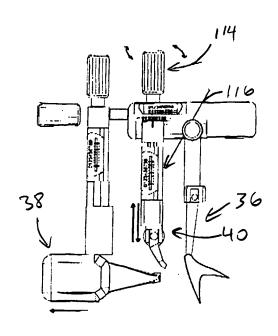
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Atty.: John W. Greenwald

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F16.53

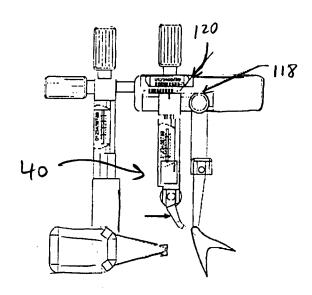
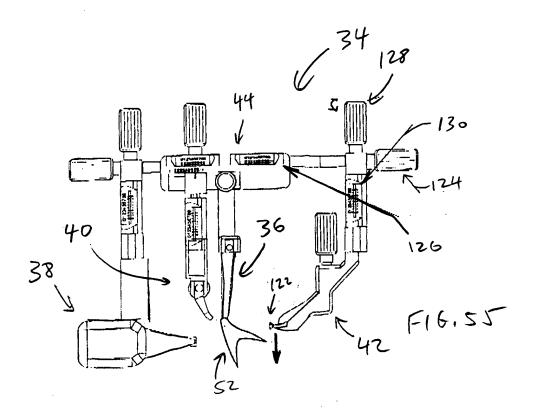
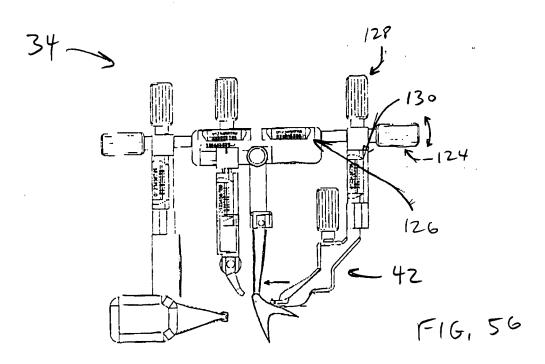


FIG. 54

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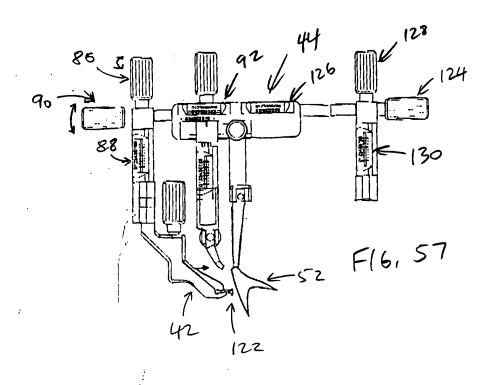
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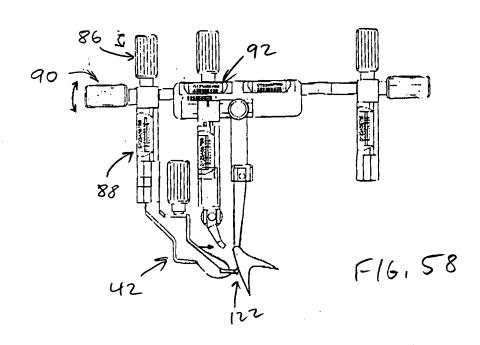




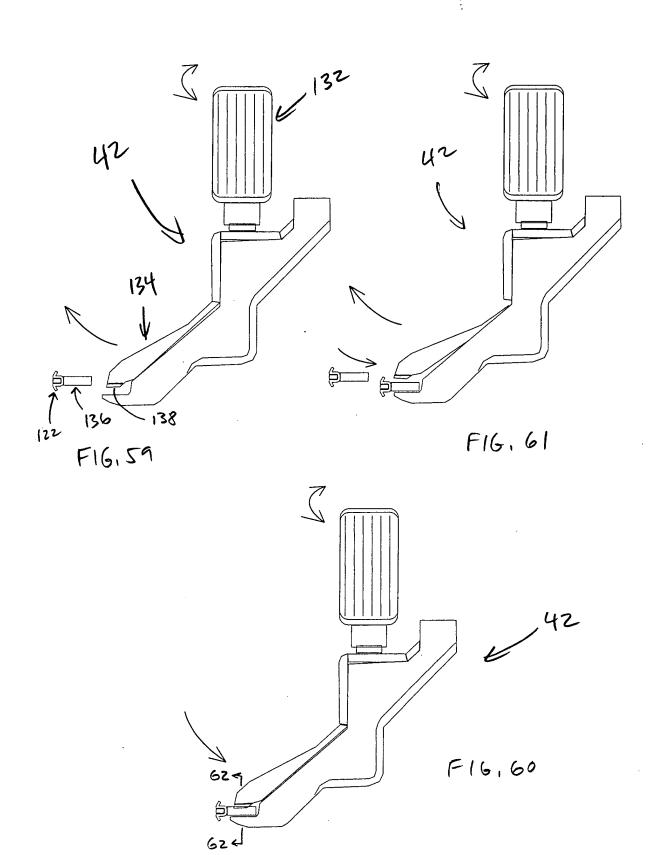
Serial No.: Filed herewith Inventor: REISING, Brian C. Title: ORTHODONTIC BRACKET POSITIONING DEVICE AND METHOD

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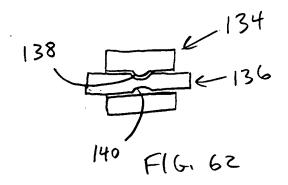


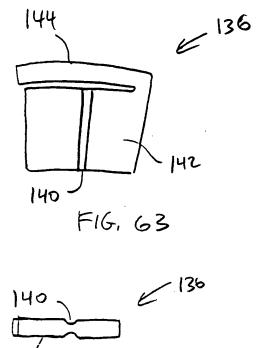
## Serial No.: Filed herewith Inventor: REISING, Brian C. Title: ORTHODONTIC BRACKET POSITIONING DEVICE AND METHOD Atty.: John W. Greenwald Atty. Docket No.: 8R08.1-030 Telephone No.: 770.984.2300 Sheet 24 of 28



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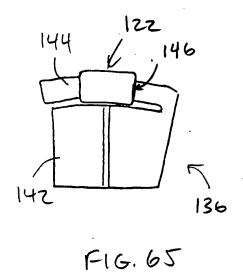
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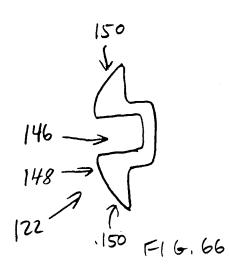


F16.64

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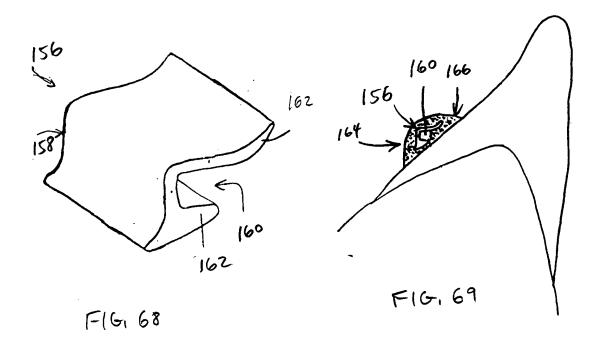


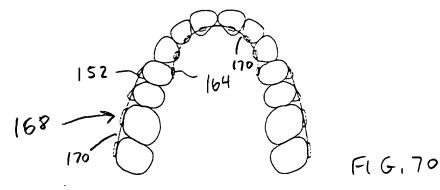
Serial No.: Filed herewith
Inventor: REISIN , Brian C.
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Atty. Docket No. 8008 1.030

Torque Pre-determined: average 14 -14 -14 -7 -7 0 10 17 17 10 -7 -7 -14 -14 -14 -14 -14 -14 -14 -14 -14 -14	Tenque Pre-determined versige 1.1 2. 3. 4 6 5 6 7 7 8 9 10 111 112 113 114 115  Torque (Cost)  T	-		Third Molar	•	First Molar	Second	First Premolar	Canine	Indsor	Central	Central	Incisor	Canine	First Premolar	Second	First Molar	Second	, Third Molar		
Torque Pre-determined: average -14 -14 -14 -7 -7 0 110 17 17 10 -7 -14 -14 -14 -14 -14 -14 -14 -14 -14 -14	Torque Pre-determinada sverage   1.4   1.4   1.7   1.7   1.7   1.7   1.7   1.7   1.7   1.7   1.7   1.7   1.7   1.7   1.7   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1.1   1	er Teeth	Tooth ID#	-		<b>m</b> :	• ! • !		•	,	80	•	10	11	12	81	i	15		16	7
Torque Chosen (deg)	Torque Chosen (deg)	Torque	Pre-determined: average torque (deg)	-14	-14	: -14		۲-	•	10	11					-14		-14	; .	-14	1
Vertical Pre-determined: vertical Offset (mm)         Pre-determined: vertical Offset (mm)         -2.0         -1.5         -1.0         -0.5         0.0         -0.5         0.0         -0.5         -1.0         -1.5         -2.0           Absolute: vertical chosen (mm)         Absolute: vertical chosen (mm)	Per-determined: vertical chosen   Per-		Torque Chosen (deg)	: !		1	  -  -	:	: :			:-									
Vertical Pre-Obtemined: vertical Orfset (mm)         -2.0         -1.5         -1.0         -0.5         0.0         -0.5         0.0         -0.5         -1.0         -1.5         -2.0           Reference plane (mm)         Absolute: vertical chosen (mm)         Absolute: vertical chosen (mm)         It offset leging (and type) of reference point Width: useable (mm)         It offset leging (and type) of reference point (mm)         It offset leging (and type) of reference point (mm)         It offset leging (and type) of reference point (mm)         It offset leging (and type) of reference point (mm)         It offset leging (and type) of reference point (mm)         It offset leging (and type) of reference point (mm)         It offset leging (and type) of reference point (mm)         It offset leging (and type) of reference point (mm)         It offset leging (and type) of reference point (mm)         It offset leging (and type) of reference point (mm)         It offset leging (and type) of reference point (and type) of reference poi	Per-olderminativariation   Per-olderminativari			: : :					; !												
Reference plane (mm)	Absolute: vertical chosen (mm)	Vertical	Pre-determined: vertical offset (mm)	-2.0	-2.0	-1.5	-1.0	. o.	0.0	9.5	0.0	0.0	-0.5		:	-1.0	-1.5	-2.0		-2.0	1
Absolute: vertical chosen (mm)  In* Offset Height (and type) of reference point Width: actual (mm)  Width: useable (mm)  Width: useable (mm)  Width: useable (mm)  Width: useable (mm)	Absolute: vertical chosen (mm)  Width: actual (mm)  Width: actual (mm)  Width: useable (mm)  Vertical Pre-determined: average  Torque Closen (deg)  Torque Closen (deg)  Torque Closen (deg)  Torque Absolute: vertical notes may be a serial pre-determined: vertical note may be a serial pre-determined: vertical note may be a serial pre-determined: vertical note may be a serial note of the serial note of		Reference plane (mm)																! !		ĺ
Height (and type) of reference point Width: useable (mm) Width: useable (mm)  Tooth ID# 32 31 30 29 28 27 26 25 24 23 22 21 20 19 18	Height (and type) of reference point   Width: actual (mm)   Width: actual (mm)		Absolute: vertical chosen							:									:		
It* Offset     Height (and type) of reference point       Width: actual (mm)       Width: useable (mm)       Tooth ID#     32       32     21       29     28       27     26       25     24       23     22       20     19       18	Height (and type) of reference point   Width: actual (mm)																		:		·
Tooth ID# 32 31 30 29 28 27 26 25 24 23 22 21 20 19 18	Width: actual (mm)	"In-Out" Offset															,			•	•
Width: useable (mm) Width: useable (mm) Tooth ID# 32 31 30 29 28 27 26 25 24 23 22 21 20 19 18	Tooth IDs 32 31 30 29 28 27 26 25 24 23 22 21 20 19 18  Torque Pre-determined: average torque (deg)  Torque Chosen (deg)  Vertical Pre-determined: vertical chosen  Absolute: vertical chosen  (mm)		reference point							,						٠					
Width: useable (mm) Tooth ID# 32 31 30 29 28 27 26 25 24 23 22 21 20 19 18	Tooth ID#         32         31         30         29         28         27         26         25         24         23         22         21         20         19         18           Torque Chosen (deg)         -20         -20         -17         -12         -6         -6         -6         -6         -6         -6         -7         -20         -20           Vertical Pre-determined: average (deg)         -1.5         -1.0         -0.5         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0         0.0		Width: actual (mm)								:	•	•		·						
Tooth 10# 32 31 30 29 28 27 26 25 24 23 22 21 20 19 18	Torque Pre-determined: average		Width: useable (mm)							:				:							
Tooth ID# 32 31 30 29 28 27 26 25 24 23 22 21 20 19 18	Tooth ID# 32 31 30 29 28 27 26 25 24 23 22 21 20 19 18  Torque Pre-determined: average																	ı			<del></del>
	-20 -20 -20 -17 -12 -6 -6 -6 -6 -6 -6 -6 -5 -12 -17 -20 -20 -1.5 -1.5 -1.0 -0.5 0.0 0.5 0.0 0.5 0.0 -0.5 -1.0 -1.5	er Teeth	Tooth ID#	32	. H	30	53	28		<b>. 5</b>	52	*	: : <b>:</b> :	. 2	**	20	61	. 81		. ,	; .
	-1.5 -1.5 -1.0 -0.5 0.0 0.5 0.0 0.0 0.0 0.5 0.0 -0.5 -1.0 -1.5	Torque	Pre-determined: average torque (deg)		-50		-17	-12	φ	φ	φ	φ	φ	φ.	-12	-17	-20	. 02	<b>;</b> ;		1
-20 -20 -20 -17 -12 -6 -6 -6 -6 -6 -6 -12 -17 -20	-1.5 -1.5 -1.0 -0.5 0.0 0.5 0.0 0.0 0.0 0.0 0.5 0.0 -0.5 -1.0 -1.5		Torque Chosen (deg)																		
-20 -20 -20 -17 -12 -6 -6 -6 -6 -6 -6 -5 -12 -17 -20 -20	Reference plane Absolute: vertical chosen (mm)	Vertical	Pre-determined: vertical offset (mm)	-1.5	-1.5		-0.5	0.0	0.5	0.0	0.0	0.0	0.0	0.5	0.0	-0.5	-1.0	-1.5	-1.5	S	<u></u>
-20 -20 -17 -12 -6 -6 -6 -6 -6 -6 -6 -9 -12 -17 -20 -20 -1.5 -1.5 -1.0 -0.5 0.0 0.5 0.0 0.5 0.0 0.5 0.0 -0.5 -1.0 -1.5		Reference plane	Absolute: vertical chosen (mm)										:	:	•					. !	. !
-20 -20 -17 -12 -6 -6 -6 -6 -6 -6 -7 -12 -17 -20 -20 -1.5 -1.5 -1.0 -0.5 0.0 0.0 0.0 0.0 0.0 0.5 0.0 -0.5 -1.0 -1.5			Widthactual (mm)		i					1		:				:		:		1	
-20 -20 -17 -12 -6 -6 -6 -6 -6 -6 -10 -17 -20 -20 -1.5 -1.5 -1.0 -0.5 0.0 0.5 0.0 0.5 0.0 -0.5 -1.0 -1.5			Width Chosen (mm)								:		, i				:	:	:		!

#### Serial No.: Filed herewith Inventor: REISING, Brian C. Title: ORTHODONTIC BRACKET POSITIONING DEVICE AND METHOD Atty.: John W. Greenwald Atty. Docket No.: 8R08.1-030 Telephone No.: 770 984 2300

Third Molar	16	71-7		20 7 7	· M -	Atty. Docket No.: 7 Felephone No.: 7 Sheet 28	<u> </u>		20 ح- ا	1.5	· .		
Second Molar	15	-14		-2.0	M	- ×	7	81	-20	-1.5	. :		
Second First Molar Premolar	3	-14		÷.	W	i ki	4.4	61	-50	-1.0			:
	<b>1</b>	-14		-1.0	`M (	3,25	7	8	71-	-0.5	•		!
First Premolar	12			-0.5	M	1, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,	7.2	<b>7</b>	-12	• • • • • • • • • • • • • • • • • • •	:		:
Canine	11	t-		0.0	. w v	٧ ٪ ۲٪	3,75	8	. φ.		1		
Lateral	01	10		-0.5	, M , L	3,25		₽.	<b>φ</b> : .	0.0	. !		
Central	•	71		0.0	W, W	<b>n</b>	375	. 24	: <b>φ</b>	0.0	. :		
Central		17		0.0	M W	س تع	75.2		<b>φ</b>	<b>0</b>	:		
Lateral		10		5.0	. M L	3,25		56	φ	0.0	:		
Canine	. <b>v</b>	. •		0.0	W W			27	. <b>φ</b>	0.5			
First r Premolar		۲-		-0.5	W	77.5	75.2	. 58	-12	0.0			
Second Premolar	4	<b>.</b>		-1.0	w v	3,25	۲ ۳	29	-17	0			
First Molar	m	-14		-1.5	W ;	2, 7, 2, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7,	7.7	30	-20	-1.0			
Second	: <b>A</b>	-14		-2.0	M -	. M	7,5	<b>.</b>	-50	-1.5			
Third	; <b></b> ; .	-14			M ~	, N	4	32	e -20	-1.5	:		
	Tooth ID#	Torque Pre-determined: average torque (deg)	Torque Chosen (deg)	Vertical Pre-determined: vertical offset (mm)	Reference plane (mm) Absolute: vertical chosen	(mm) Height (and type) of reference point Width: actual (mm)	Width: useable (mm)	Tooth ID#	Pre-determined: average torque (deg) Torque Chosen (deg)	Vertical Pre-determined: vertical offset (mm) Reference plane Absolute: vertical chosen (mm)		Widthactual (mm)	
	Upper Teeth	Torque		Vertical		In-Out" Offset	·	Lower Teeth	Torque	Vertical Reference plane	"In-Out" Offset	:	

posterior sesment